GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 30, 2002, 10:16:02 ; Search time 415.2 Seconds
(without alignments)
795.114 Million cell updates/sec

Title: US-09-303-518D-127
Perfect score: 1344
Sequence: 1 atgattaaaatcaaaaaagg.....ccnttgagaaggaaggctga 1344

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
c	1	35.8	2.7	4403765	4	US-09-103-840A-2	Sequence 2, Appli
c	2	35.8	2.7	4411529	4	US-09-103-840A-1	Sequence 1, Appli
	3	35.6	2.6	2558	3	US-08-999-733-3	Sequence 3, Appli
	4	35.6	2.6	9757	1	US-08-093-453B-1	Sequence 1, Appli
	5	35.6	2.6	9759	1	US-08-459-041A-1	Sequence 1, Appli
	6	35.6	2.6	9759	3	US-08-999-733-1	Sequence 1, Appli
	7	34.4	2.6	2159	3	US-08-286-870A-7	Sequence 7, Appli
	8	34	2.5	44377	2	US-08-804-227C-7	Sequence 7, Appli
	9	34	2.5	44377	2	US-08-804-198-1	Sequence 1, Appli
c	10	32.4	2.4	725	4	US-08-998-416-1020	Sequence 1020, Ap
	11	32.4	2.4	1400	1	US-08-347-221-1	Sequence 1, Appli
	12	32	2.4	4403765	4	US-09-103-840A-2	Sequence 2, Appli
c	13	31.6	2.4	1608	2	US-08-524-828-3	Sequence 3, Appli
c	14	31.6	2.4	1608	2	US-08-975-114A-3	Sequence 3, Appli
c	15	31.6	2.4	1608	3	US-08-849-281A-1	Sequence 1, Appli
	16	31.6	2.4	1767	1	US-08-399-646-1	Sequence 1, Appli
	17	31.6	2.4	1767	1	US-08-607-321-1	Sequence 1, Appli
	18	31.6	2.4	1767	2	US-08-961-240-1	Sequence 1, Appli
	19	31.6	2.4	1767	2	US-08-605-501-1	Sequence 1, Appli
	20	31.6	2.4	2161	1	US-08-399-646-11	Sequence 11, Appl
	21	31.6	2.4	2161	1	US-08-607-321-11	Sequence 11, Appl
	22	31.6	2.4	2161	2	US-08-961-240-11	Sequence 11, Appl
	23	31.6	2.4	2161	2	US-08-605-501-11	Sequence 11, Appl
	24	31.6	2.4	46899	1	US-08-471-119A-1	Sequence 1, Appli
c	25	31.6	2.4	80161	3	US-09-036-987A-1	Sequence 1, Appli
c	26	31.6	2.4	80161	4	US-09-370-700-1	Sequence 1, Appli
	27	31.4	2.3	2158	1	US-07-602-608-1	Sequence 1, Appli
	28	31.4	2.3	2158	1	US-08-261-578-1	Sequence 1, Appli
c	29	31.2	2.3	705	4	US-08-776-059-38	Sequence 38, Appl
c	30	31.2	2.3	774	4	US-08-776-059-30	Sequence 30, Appl
c	31	31.2	2.3	1923	4	US-08-776-059-34	Sequence 34, Appl
c	32	31.2	2.3	7218	1	US-08-232-463-14	Sequence 14, Appl
	33	31	2.3	1296	1	US-08-090-523-1	Sequence 1, Appli
	34	31	2.3	1296	1	US-08-090-523-3	Sequence 3, Appli
	35	31	2.3	1296	1	US-08-398-627-1	Sequence 1, Appli
	36	31	2.3	1296	1	US-08-398-627-3	Sequence 3, Appli
	37	31	2.3	1296	1	US-08-406-858-1	Sequence 1, Appli
	38	31	2.3	1296	1	US-08-406-858-3	Sequence 3, Appli
	39	31	2.3	1296	5	PCT-US91-04036-1	Sequence 1, Appli
	40	31	2.3	1296	5	PCT-US91-04036-3	Sequence 3, Appli
	41	31	2.3	1296	5	PCT-US94-05275-1	Sequence 1, Appli
	42	31	2.3	1296	5	PCT-US94-05275-3	Sequence 3, Appli
	43	31	2.3	1323	1	US-07-735-065-3	Sequence 3, Appli
	44	31	2.3	1323	1	US-08-469-202-13	Sequence 13, Appl
	45	31	2.3	1323	2	US-08-484-434C-13	Sequence 13, Appl
	46	31	2.3	4411529	4	US-09-103-840A-1	Sequence 1, Appli
	47	30.8	2.3	1416	3	US-08-911-853-3	Sequence 3, Appli
	48	30.8	2.3	1416	4	US-09-479-409-3	Sequence 3, Appli
	49	30.8	2.3	1416	4	US-09-479-453-3	Sequence 3, Appli
	50	30.8	2.3	1528	4	US-08-477-928A-1	Sequence 1, Appli
	51	30.8	2.3	1742	4	US-08-477-928A-44	Sequence 44, Appl
	52	30.8	2.3	1785	2	US-08-307-485A-6	Sequence 6, Appli
	53	30.8	2.3	1785	2	US-08-465-809-1	Sequence 1, Appli
c	54	30.8	2.3	2639	1	US-07-952-817-8	Sequence 8, Appli
c	55	30.8	2.3	2639	6	5210025-1	Patent No. 5210025
	56	30.8	2.3	4377	3	US-08-911-853-28	Sequence 28, Appl
	57	30.8	2.3	4377	4	US-09-479-409-28	Sequence 28, Appl
	58	30.8	2.3	4377	4	US-09-479-453-28	Sequence 28, Appl
	59	30.6	2.3	1693	3	US-09-320-878-23	Sequence 23, Appl
	60	30.6	2.3	3027	4	US-08-818-112-110	Sequence 110, App
	61	30.6	2.3	3027	4	US-08-818-111-105	Sequence 105, App
	62	30.6	2.3	3027	4	US-09-056-556-110	Sequence 110, App
c	63	30.4	2.3	4245	2	US-08-929-967-4	Sequence 4, Appli
c	64	30.4	2.3	4411	2	US-08-929-967-5	Sequence 5, Appli
c	65	30.4	2.3	5392	2	US-08-403-852D-1	Sequence 1, Appli
c	66	30.4	2.3	5392	3	US-08-510-646B-1	Sequence 1, Appli
c	67	30.4	2.3	5392	4	US-09-231-818-1	Sequence 1, Appli
c	68	30.4	2.3	6162	2	US-08-673-312-9	Sequence 9, Appli
	69	30.4	2.3	6363	2	US-08-929-967-6	Sequence 6, Appli
	70	30.4	2.3	50341	1	US-08-247-901C-1	Sequence 1, Appli
	71	30.4	2.3	50341	2	US-09-075-904-1	Sequence 1, Appli
	72	30.4	2.3	246240	2	US-08-724-394A-20	Sequence 20, Appl
	73	30.4	2.3	246240	2	US-08-724-394A-21	Sequence 21, Appl
	74	30.4	2.3	246240	2	US-08-724-394A-22	Sequence 22, Appl
c	75	30.2	2.2	2316	2	US-08-714-677-1	Sequence 1, Appli
c	76	30.2	2.2	2316	2	US-08-393-540-1	Sequence 1, Appli
c	77	30.2	2.2	2316	2	US-08-714-537-1	Sequence 1, Appli
c	78	30.2	2.2	2936	2	US-08-714-677-10	Sequence 10, Appl
c	79	30.2	2.2	2936	2	US-08-393-540-10	Sequence 10, Appl
c	80	30.2	2.2	2936	2	US-08-714-537-10	Sequence 10, Appl
c	81	30.2	2.2	4394	2	US-08-750-152A-1	Sequence 1, Appli
	82	29.8	2.2	1602	1	US-07-820-011A-1	Sequence 1, Appli
	83	29.8	2.2	1602	5	PCT-US93-00445-1	Sequence 1, Appli
	84	29.8	2.2	2880	2	US-08-500-857A-3	Sequence 3, Appli
	85	29.6	2.2	80161	3	US-09-036-987A-1	Sequence 1, Appli
	86	29.6	2.2	80161	4	US-09-370-700-1	Sequence 1, Appli
	87	29.4	2.2	1696	1	US-07-887-072B-3	Sequence 3, Appli
	88	29.4	2.2	1696	1	US-08-466-444-3	Sequence 3, Appli
	89	29.4	2.2	1905	4	US-09-142-623-2	Sequence 2, Appli
	90	29.2	2.2	1618	2	US-08-533-669A-9	Sequence 9, Appli
	91	29.2	2.2	1618	2	US-08-607-509-1	Sequence 1, Appli
	92	29.2	2.2	1618	2	US-08-454-036-1	Sequence 1, Appli
	93	29.2	2.2	1618	2	US-08-634-642-1	Sequence 1, Appli
	94	29.2	2.2	1618	3	US-08-989-370-1	Sequence 1, Appli
	95	29.2	2.2	1618	5	PCT-US95-05064-1	Sequence 1, Appli
	96	29.2	2.2	1650	2	US-08-776-210-6	Sequence 6, Appli
c	97	29.2	2.2	1670	3	US-08-709-838-1	Sequence 1, Appli
c	98	29.2	2.2	1670	4	US-08-829-839-1	Sequence 1, Appli
c	99	29.2	2.2	1749	4	US-09-516-914-22	Sequence 22, Appl
	100	29.2	2.2	2163	1	US-07-731-157A-1	Sequence 1, Appli

ALIGNMENTS

```
RESULT   1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
;  APPLICANT: FLEISCHMAN, Robert D.
;  APPLICANT:  WHITE, Owen R.
;  APPLICANT:  FRASER, Claire M.
;  APPLICANT:  VENTER, John C.
;  TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
;  TITLE OF INVENTION:  TUBERCULOSIS
;  FILE REFERENCE: 24366-20007.00
;  CURRENT APPLICATION NUMBER: US/09/103,840A
;  CURRENT FILING DATE:  1998-06-24
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 4403765
;   TYPE: DNA
;   ORGANISM: Mycobacterium tuberculosis
;   FEATURE:
;   OTHER INFORMATION: CDC 1551
;   OTHER INFORMATION: "n" bases at various positions throughout the sequence
;   OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

  Query Match             2.7%;  Score 35.8;  DB 4;  Length 4403765;
  Best Local Similarity   55.1%;  Pred. No. 16;
  Matches   70;  Conservative    0;  Mismatches   57;  Indels    0;  Gaps    0;

Qy   1044 cacgcgtacgaccctcggccatttcctgaaaaacaaactcttcaagttcacgacagccgt 1103
          ||| |  || ||| ||||||||  |  |||     | ||| ||   |||||  | |||
Db 4102529 CACCCTAACCACCATCGGCCATGACAAGAACGGTGACCTCATCGGCTTCACTTCCGCCCA 4102470

Qy   1104 caacggtggcgaccgcgccatggtgccgattggtacttacgagcgcgtaatgccgctaga 1163
          |   || |||    ||||   | |  |   ||    |  ||||  ||     ||| |||
Db 4102469 CTGTGGGGGCCCGGGCGCGCAGATCGCCGCTGAGGGTGCCGAGAACGCGGGCCCGGTAGG 4102410

Qy   1164 catcctg 1170
          |||| ||
Db 4102409 CATCATG 4102403


RESULT   2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
;  APPLICANT: FLEISCHMAN, Robert D.
;  APPLICANT:  WHITE, Owen R.
;  APPLICANT:  FRASER, Claire M.
;  APPLICANT:  VENTER, John C.
;  TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
;  TITLE OF INVENTION:  TUBERCULOSIS
;  FILE REFERENCE: 24366-20007.00
;  CURRENT APPLICATION NUMBER: US/09/103,840A
;  CURRENT FILING DATE:  1998-06-24
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 4411529
;   TYPE: DNA
;   ORGANISM: Mycobacterium tuberculosis
;   OTHER INFORMATION: H37Rv
US-09-103-840A-1

  Query Match             2.7%;  Score 35.8;  DB 4;  Length 4411529;
  Best Local Similarity   55.1%;  Pred. No. 16;
  Matches   70;  Conservative    0;  Mismatches   57;  Indels    0;  Gaps    0;

Qy   1044 cacgcgtacgaccctcggccatttcctgaaaaacaaactcttcaagttcacgacagccgt 1103
          ||| |  || ||| ||||||||  |  |||     | ||| ||   |||||  | |||
Db 4110332 CACCCTAACCACCATCGGCCATGACAAGAACGGTGACCTCATCGGCTTCACTTCCGCCCA 4110273

Qy   1104 caacggtggcgaccgcgccatggtgccgattggtacttacgagcgcgtaatgccgctaga 1163
          |   || |||    ||||   | |  |   ||    |  ||||  ||     ||| |||
Db 4110272 CTGTGGGGGCCCGGGCGCGCAGATCGCCGCTGAGGGTGCCGAGAACGCGGGCCCGGTAGG 4110213

Qy   1164 catcctg 1170
          |||| ||
Db 4110212 CATCATG 4110206


RESULT   3
US-08-999-733-3
; Sequence 3, Application US/08999733
; Patent No. 6054573
;  GENERAL INFORMATION:
;    APPLICANT:  Frey, Teryl K.
;    APPLICANT:  Pugachev, Konstantin V.
;    APPLICANT:  Abernathy, Emily S.
;    TITLE OF INVENTION:  Highly Infectious Rubella Virus Clones
;    TITLE OF INVENTION:  and Methods of Production
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jones & Askew, LLP
;      STREET:  191 Peachtree Street, 37th Floor
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/999,733
;      FILING DATE:  02-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/459,041
;      FILING DATE:  02-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/093,453
;      FILING DATE:  19-JUL-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/722,334
;      FILING DATE:  28-JUN-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Greene, Jamie L.
;      REGISTRATION NUMBER:  32,467
;      REFERENCE/DOCKET NUMBER:  07362-0103
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 818-3700
;      TELEFAX:  (404) 818-3799
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2558 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-999-733-3

  Query Match             2.6%;  Score 35.6;  DB 3;  Length 2558;
```

```
  Best Local Similarity   45.4%;  Pred. No. 0.42;
  Matches  122;  Conservative    0;  Mismatches  147;  Indels    0;  Gaps    0;

Qy      55 gtcatttatgacgggcccgtcattaccgaagtcgcgttgcttggcgaagaatatgccggt 114
           | ||  | || || | ||| |          | |  |  |     ||| ||    |  |
Db    1142 GGCACCTGTGCCGCGACCGACGAGGGGCTGGCCCAGGCGTACTACGACGACCTCGAGGTG 1201

Qy     115 atgcgcccctngatgaaagtcaaggaaggcgatgccgtcaaaaaaggccaagtgctgttt 174
           |||| |  |    | | || ||   | |  ||| ||  |  || ||||   |
Db    1202 CGCCGCCTCGGGGATGACGCCATGGCCCGGGCGGCCCTCGCATCAGTCCAACGCCCTCGC 1261

Qy     175 gaagacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgcc 234
           ||| |    |  ||    | ||    |   |  ||  | |   | ||||| |  ||  |
Db    1262 AAAGGCCCTTACAATATCAGGGTATGGAACATGGCCGCAGGCGCTGGCAAGACTACCCGC 1321

Qy     235 atccatcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgac 294
           ||||     | |   | ||||| |   |  |  |||       ||  ||    |    ||
Db    1322 ATCCTCGCTGCCTTCACGCGCGAAGACCTTTACGTCTGCCCCACCAATGCGCTCCTGCAC 1381

Qy     295 gaaatcgagttcgaacgctacgcgcccga 323
           || ||| ||  | ||| |  ||||| |||
Db    1382 GAGATCCAGGCCAAACTCCGCGCGCGCGA 1410


RESULT   4
US-08-093-453B-1
; Sequence 1, Application US/08093453B
; Patent No. 5439814
;  GENERAL INFORMATION:
;    APPLICANT:  Frey, Teryl K.
;    APPLICANT:  Dominguez, Geraldina
;    APPLICANT:  Wang, Chin_Yen
;    TITLE OF INVENTION:  Modified Infectious Rubella Virus
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jamie L. Greene, Jones & Askew
;      STREET:  191 Peachtree Street, 37th Floor
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  United States
;      ZIP:  30303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50
;      COMPUTER:  MacIntosh
;      OPERATING SYSTEM:  7.0
;      SOFTWARE:  Microsoft Word
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/093,453B
;      FILING DATE:  19 JUL 1993
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  U.S. 07/722,334
;      FILING DATE:  28 JUN 1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Greene, Jamie L.
;      REGISTRATION NUMBER:  32,467
;      REFERENCE/DOCKET NUMBER:  07362-0101
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  404_818-3700
;      TELEFAX:  404_818-3799
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9757 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  RNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Rubella virus
;      STRAIN:  Therien
US-08-093-453B-1


  Query Match             2.6%;  Score 35.6;  DB 1;  Length 9757;
  Best Local Similarity   41.6%;  Pred. No. 0.84;
  Matches  112;  Conservative   10;  Mismatches  147;  Indels    0;  Gaps    0;

Qy      55 gtcatttatgacgggcccgtcattaccgaagtcgcgttgcttggcgaagaatatgccggt 114
           | ||  : :| || | ||| |        | |  |  |     ||| ||    |  |
Db    3941 GGCACCUGUGCCGCGACCGACGAGGGGCUGGCCCAGGCGUACUACGACGACCUCGAGGUG 4000

Qy     115 atgcgcccctngatgaaagtcaaggaaggcgatgccgtcaaaaaaggccaagtgctgttt 174
           |||| |  |    | | || ||   | |  ||| :|  |  || ||||   |
Db    4001 CGCCGCCUCGGGGAUGACGCCAUGGCCCGGGCGGCCCUCGCAUCAGUCCAACGCCCUCGC 4060

Qy     175 gaagacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgcc 234
           ||| |    |  |:    | |:   |   |  ||  | |   | |||||  |  ||  |
Db    4061 AAAGGCCCUUACAAUAUCAGGGUAUGGAACAUGGCCGCAGGCGCUGGCAAGACUACCCGC 4120

Qy     235 atccatcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgac 294
           |:||     | |   | ||||| |   |  :  |:|       ||  :|    |    ||
Db    4121 AUCCUCGCUGCCUUCACGCGCGAAGACCUUUACGUCUGCCCCACCAAUGCGCUCCUGCAC 4180

Qy     295 gaaatcgagttcgaacgctacgcgcccga 323
           || |:| ||  | ||| |  ||||| |||
Db    4181 GAGAUCCAGGCCAAACUCCGCGCGCGCGA 4209


RESULT   5
US-08-459-041A-1
; Sequence 1, Application US/08459041A
; Patent No. 5663065
;  GENERAL INFORMATION:
;    APPLICANT:  Frey, Teryl K.
;    APPLICANT:  Dominguez, Geraldina
;    APPLICANT:  Wang, Chin-Yen
;    TITLE OF INVENTION:  DNA Encoding Infectious Rubella Virus
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jones & Askew
;      STREET:  191 Peachtree Street, 37th Floor
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,041A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Greene, Jamie L.
;      REGISTRATION NUMBER:  32,467
;      REFERENCE/DOCKET NUMBER:  07362-0102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 818-3700
;      TELEFAX:  (404) 818-3799
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9759 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-459-041A-1


  Query Match             2.6%;  Score 35.6;  DB 1;  Length 9759;
```

```
  Best Local Similarity   45.4%;  Pred. No. 0.84;
  Matches  122;  Conservative    0;  Mismatches  147;  Indels    0;  Gaps    0;

Qy      55 gtcatttatgacgggcccgtcattaccgaagtcgcgttgcttggcgaagaatatgccggt 114
           | ||  | || || | ||| |         | |  |  |     ||| ||    |  |
Db    3944 GGCACCTGTGCCGCGACCGACGAGGGGCTGGCCCAGGCGTACTACGACGACCTCGAGGTG 4003

Qy     115 atgcgcccctngatgaaagtcaaggaaggcgatgccgtcaaaaaaggccaagtgctgtttt 174
             |||| |  |    | | || ||   | |  ||| ||  |  || ||||   |
Db    4004 CGCCGCCTCGGGGATGACGCCATGGCCCGGGCGGCCCTCGCATCAGTCCAACGCCCTCGC 4063

Qy     175 gaagacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgcc 234
            ||| |    |  ||    | ||   |   |  ||  | |   | ||||| |   ||  |
Db    4064 AAAGGCCCTTACAATATCAGGGTATGGAACATGGCCGCAGGCGCTGGCAAGACTACCCGC 4123

Qy     235 atccatcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgac 294
           ||||     | |   | ||||| |   |  |  |||       ||  ||    |    ||
Db    4124 ATCCTCGCTGCCTTCACGCGCGAAGACCTTTACGTCTGCCCCACCAATGCGCTCCTGCAC 4183

Qy     295 gaaatcgagttcgaacgctacgcgcccga 323
           || ||| ||  | ||| |  ||||| |||
Db    4184 GAGATCCAGGCCAAACTCCGCGCGCGCGA 4212


RESULT   6
US-08-999-733-1
; Sequence 1, Application US/08999733
; Patent No. 6054573
;  GENERAL INFORMATION:
;    APPLICANT:  Frey, Teryl K.
;    APPLICANT:  Pugachev, Konstantin V.
;    APPLICANT:  Abernathy, Emily S.
;    TITLE OF INVENTION:  Highly Infectious Rubella Virus Clones
;    TITLE OF INVENTION:  and Methods of Production
;    NUMBER OF SEQUENCES:  9
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Jones & Askew, LLP
;      STREET:  191 Peachtree Street, 37th Floor
;      CITY:  Atlanta
;      STATE:  Georgia
;      COUNTRY:  USA
;      ZIP:  30303
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/999,733
;      FILING DATE:  02-SEP-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/459,041
;      FILING DATE:  02-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/093,453
;      FILING DATE:  19-JUL-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/722,334
;      FILING DATE:  28-JUN-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Greene, Jamie L.
;      REGISTRATION NUMBER:  32,467
;      REFERENCE/DOCKET NUMBER:  07362-0103
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (404) 818-3700
;      TELEFAX:  (404) 818-3799
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9759 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
US-08-999-733-1


  Query Match              2.6%;  Score 35.6;  DB 3;  Length 9759;
  Best Local Similarity   45.4%;  Pred. No. 0.84;
  Matches  122;  Conservative    0;  Mismatches  147;  Indels    0;  Gaps    0;

Qy      55 gtcatttatgacgggcccgtcattaccgaagtcgcgttgcttggcgaagaatatgccggt 114
           | ||  | || || | ||| |         | |  |  |     ||| ||    |  |
Db    3944 GGCACCTGTGCCGCGACCGACGAGGGGCTGGCCCAGGCGTACTACGACGACCTCGAGGTG 4003

Qy     115 atgcgcccctngatgaaagtcaaggaaggcgatgccgtcaaaaaaggccaagtgctgtttt 174
             |||| |  |    | | || ||   | |  ||| ||  |  || ||||   |
Db    4004 CGCCGCCTCGGGGATGACGCCATGGCCCGGGCGGCCCTCGCATCAGTCCAACGCCCTCGC 4063

Qy     175 gaagacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgcc 234
            ||| |    |  ||    | ||   |   |  ||  | |   | ||||| |   ||  |
Db    4064 AAAGGCCCTTACAATATCAGGGTATGGAACATGGCCGCAGGCGCTGGCAAGACTACCCGC 4123

Qy     235 atccatcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgac 294
           ||||     | |   | ||||| |   |  |  |||       ||  ||    |    ||
Db    4124 ATCCTCGCTGCCTTCACGCGCGAAGACCTTTACGTCTGCCCCACCAATGCGCTCCTGCAC 4183

Qy     295 gaaatcgagttcgaacgctacgcgcccga 323
           || ||| ||  | ||| |  ||||| |||
Db    4184 GAGATCCAGGCCAAACTCCGCGCGCGCGA 4212


RESULT   7
US-08-286-870A-7
; Sequence 7, Application US/08286870A
; Patent No. 6063605
;  GENERAL INFORMATION:
;    APPLICANT:  ELY, S
;    APPLICANT:  TAILOR, RH
;    APPLICANT:  TIPPETT, JM
;    APPLICANT:  BLENK, RG
;    TITLE OF INVENTION:  BACTERIAL GENES
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      ADDRESSEE:  Intellectual Property Group of
;      ADDRESSEE:  PILLSBURY, MADISON & SUTRO LLP
;      STREET:  1100 New York Avenue, N.W.
;      CITY:  Washington
;      STATE:  DC
;      COUNTRY:  USA
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/286,870A
;      FILING DATE:  05-AUG-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/520228
;      FILING DATE:  09-MAY-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 8910624.9
;      FILING DATE:  09-MAY-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  PAUL N. KOKULIS
;      REGISTRATION NUMBER:  16,773
;      REFERENCE/DOCKET NUMBER:  70608/220720
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
```

```
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2159 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..2159
US-08-286-870A-7


  Query Match             2.6%;  Score 34.4;  DB 3;  Length 2159;
  Best Local Similarity   47.3%;  Pred. No. 0.9;
  Matches   86;  Conservative    0;  Mismatches   96;  Indels    0;  Gaps    0;

Qy     341 gcggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtancc 400
           |||| || ||  |      |||     |||   |||      |  ||  | | |   | |
Db    1778 GCGGTGAGGACCTGGACTACAAGACCTTCCGCACCGTGGGCTTCACCACCCCGTTCAGCT 1837

Qy     401 gtccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcga 460
           | |  |    | | | |   |  |   | ||    |  |  || |  || ||| | |
Db    1838 TCCTGGACGTGCAGAGCACCTTCACCATCGGCGCCTGGAACTTCAGCAGCGGCAACGAGG 1897

Qy     461 tggacaccaatccgctngcggcagaccctgtggttgtgatcaaagaagccgncgangatt 520
           || ||| | | |   | | |   |  || ||||  |||| | | || ||||   | || |
Db    1898 TGTACATCGACCGCATCGAGTTCGTGCCCGTGGAGGTGACCTACGAGGCCGAGTACGACT 1957

Qy     521 tc 522
           ||
Db    1958 TC 1959


RESULT   8
US-08-804-227C-7
; Sequence 7, Application US/08804227C
; Patent No. 5876991
;  GENERAL INFORMATION:
;    APPLICANT:  DeHoff, Bradley S.
;    APPLICANT:  Kuhstoss, Stuart A.
;    APPLICANT:  Rosteck, Paul R., Jr.
;    APPLICANT:  Sutton, Kimberly L.
;    TITLE OF INVENTION:  POLYKETIDE SYNTHASE GENES
;    NUMBER OF SEQUENCES:  15
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  THOMAS G. PLANT  1501
;      STREET:  LILLY CORPORATE CENTER
;      CITY:  INDIANAPOLIS
;      STATE:  IN
;      COUNTRY:  USA
;      ZIP:  46285
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  ASCI(DOS) Text only
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/804,227C
;      FILING DATE:  February 21, 1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Plant, Thomas, G.
;      REGISTRATION NUMBER:  35,784
;      REFERENCE/DOCKET NUMBER:  X-8231
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  317-276-2459
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  44377 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  350..14002
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  14046..20036
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  20110..31284
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  31329..36071
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  36155..41830
US-08-804-227C-7


  Query Match             2.5%;  Score 34;  DB 2;  Length 44377;
  Best Local Similarity   54.0%;  Pred. No. 5.9;
  Matches   61;  Conservative    0;  Mismatches   52;  Indels    0;  Gaps    0;

Qy     346 gangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccg 405
           || ||| |      |    |||  |   ||||    |  ||| | || ||    ||| |
Db   36170 GACGAAGTGCTGGGTGCGCTGCGCACCTCCGTCAAGGAGACCGAGCGGCTGCGCCGGCAC 36229

Qy     406 ttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgc 458
           | |  |  |||  |||| ||    |||||||| |||||||| | | ||  ||
Db   36230 AACCGGGAGCTCCTGGCCGGCGCGCACGAGCCGGTCGCCATCGTGGGCATGGC 36282


RESULT   9
US-08-804-198-1
; Sequence 1, Application US/08804198
; Patent No. 5945320
;  GENERAL INFORMATION:
;    APPLICANT:  Burgett, Stanley G.
;    APPLICANT:  Kuhstoss, Stuart A.
;    APPLICANT:  Rao, Nagaraja R.
;    APPLICANT:  Richardson, Mark A.
;    APPLICANT:  Rosteck, Paul R., Jr.
;    TITLE OF INVENTION:  PLATENOLIDE SYNTHASE GENE
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PAUL R. CANTRELL  1138
;      STREET:  LILLY CORPORATE CENTER
;      CITY:  INDIANAPOLIS
;      STATE:  IN
;      COUNTRY:  USA
;      ZIP:  46285
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  Macintosh
;      OPERATING SYSTEM:  Macintosh 7.0
;      SOFTWARE:  Microsoft Word 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/804,198
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CANTRELL, PAUL R.
;      REGISTRATION NUMBER:  36,470
;      REFERENCE/DOCKET NUMBER:  P9113
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  317-276-3885
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  44377 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
```

```
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  350..14002
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  14046..20036
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  20110..31284
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  31329..36071
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  36155..41830
US-08-804-198-1


  Query Match             2.5%;  Score 34;  DB 2;  Length 44377;
  Best Local Similarity   54.0%;  Pred. No. 5.9;
  Matches   61;  Conservative    0;  Mismatches   52;  Indels    0;  Gaps    0;

Qy      346 gangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccg 405
            || ||| |     |    ||| |   ||||    | ||| | || ||   ||| |
Db    36170 GACGAAGTGCTGGGTGCGCTGCGCACCTCCGTCAAGGAGACCGAGCGGCTGGGCCGGCAC 36229

Qy      406 ttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgc 458
              | |  |  |||  |||| ||    ||||||| |||||||| | | ||  ||
Db    36230 AACCGGGAGCTCCTGGCCGGCGCGCACGAGCCGGTCGCCATCGTGGGCATGGC 36282


RESULT  10
US-08-998-416-1020/c
; Sequence 1020, Application US/08998416
; Patent No. 6239264
;  GENERAL INFORMATION:
;    APPLICANT:  Philippsen, Peter
;    APPLICANT:  Pohlmann, Rainer
;    APPLICANT:  Steiner, Sabine
;    APPLICANT:  Mohr, Christine
;    APPLICANT:  Wendland, Jurgen
;    APPLICANT:  Knechtle, Philipp
;    APPLICANT:  Rebischung, Corinne
;    TITLE OF INVENTION:  GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPII
;    TITLE OF INVENTION:  AND USES THEREOF
;    NUMBER OF SEQUENCES:  1152
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 6239264artis Corporation
;      STREET:  3054 Cornwallis Road
;      CITY:  Research Triangle Park
;      STATE:  No. 6239264th Carolina
;      COUNTRY:  USA
;      ZIP:  27709
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/998,416
;      FILING DATE:  24-DEC-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  CH 0016/97
;      FILING DATE:  31-DEC-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Meigs, J. Timothy
;      REGISTRATION NUMBER:  38,241
;      REFERENCE/DOCKET NUMBER:  PF/5-30306/A/CGC1976
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  919-541-8587
;      TELEFAX:  919-541-8689
;  INFORMATION FOR SEQ ID NO:  1020:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    ORIGINAL SOURCE:
;      ORGANISM:  PAG1625RP
US-08-998-416-1020


  Query Match             2.4%;  Score 32.4;  DB 4;  Length 725;
  Best Local Similarity   54.1%;  Pred. No. 2.1;
  Matches   60;  Conservative    0;  Mismatches   51;  Indels    0;  Gaps    0;

Qy      429 tgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccgctngcggcagaccc 488
            |||||||||| |  |||||  |||| |   |     |  ||||   |     | |  |||
Db      382 TGCCGAGCCGCTGTCCATCCACGTCGAGACTTACGGTACCAGCACCAAGTCCGACGACGA 323

Qy      489 tgtggttgtgatcaaagaagccgncgangatttcagacgangtntgctggt 539
              || | | |||||       |  |   ||  |||||| | || | || ||
Db      322 GCTGATCGAGATCATCCGCAACAACTTCGACCTCAGACCAGGTGTTCTTGT 272


RESULT  11
US-08-347-221-1
; Sequence 1, Application US/08347221
; Patent No. 5525501
;  GENERAL INFORMATION:
;    APPLICANT:  Masaharu TOKUYAMA et al.
;    TITLE OF INVENTION:  DNA FRAGMENT ENCODING ACYLAMINO ACID
;    TITLE OF INVENTION:  RACEMASE (AS AMENDED)
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Wenderoth, Lind & Ponack
;      STREET:  805 Fifteenth Street, N.W., #700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 5.25 inch, 500 Kb
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  Wordperfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/347,221
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/984,310
;      FILING DATE:  December 1, 1992
;      APPLICATION NUMBER:  07/668,475
;      FILING DATE:  March 13, 1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warren M. Cheek Jr.
;      REGISTRATION NUMBER:  33,367
;      REFERENCE/DOCKET NUMBER:
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-371-8850
;      TELEFAX:
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1400 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:
;    HYPOTHETICAL:
;    ANTI-SENSE:
;    FRAGMENT TYPE:
;    ORIGINAL SOURCE:
```

```
;       ORGANISM:
;       STRAIN:
;       INDIVIDUAL ISOLATE:
;       DEVELOPMENTAL STAGE:
;       HAPLOTYPE:
;       TISSUE TYPE:
;       CELL TYPE:
;       CELL LINE:
;       ORGANELLE:
;     IMMEDIATE SOURCE:
;       LIBRARY:
;       CLONE:
;     POSITION IN GENOME:
;       CHROMOSOME/SEGMENT:
;       MAP POSITION:
;       UNITS:
;     FEATURE:
;       NAME/KEY:
;       LOCATION:
;       IDENTIFICATION METHOD:
;       OTHER INFORMATION:
;     PUBLICATION INFORMATION:
;       AUTHORS:
;       TITLE:
;       JOURNAL:
;       VOLUME:
;       ISSUE:
;       PAGES:
;       DATE:
;       DOCUMENT NUMBER:
;       FILING DATE:
;       PUBLICATION DATE:
;       RELEVANT RESIDUES IN SEQ ID NO:
US-08-347-221-1


  Query Match             2.4%;  Score 32.4;  DB 1;  Length 1400;
  Best Local Similarity   45.5%;  Pred. No. 3;
  Matches  105;  Conservative    0;  Mismatches  126;  Indels    0;  Gaps    0;

Qy    426 cgatgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccgctngcggcaga 485
          |||| | | ||||| || | | |  |||      ||||||||||  ||||    |   ||
Db    442 CGATTCTGTGCCGTGCGGCGTTTCGGTCGGGATCATGGACACCATCCCGCAACTGCTCGA 501

Qy    486 ccctgtggttgtgatcaaagaagccgncgangatttcagacgangtntgctggtattgag 545
          |   ||||  |    |   || |  |   | |      |           | | | |    |
Db    502 CGTCGTGGGCGGATACCTCGACGAGGGTTACGTGCGGATCAAGCTGAAGATCGAACCCGG 561

Qy    546 ccgtttgaccgagcgtaaaatccatgtgtgtaaggcagctggcgcagacgtgccgtctga 605
          | |     |||||       |   ||  |  ||      ||||  ||||||| |    |
Db    562 CTGGGACGTCGAGCCGGTGCGCGCGGTCCGCGAGCGCTTCGGCGACGACGTGCTGCTGCA 621

Qy    606 aaatgctgccaacatcgaaacacatgaattcggcggcccgcatccggccgg 656
              |  || |||| ||          || ||  ||||| | |||| |
Db    622 GGTCGACGCGAACACCGCCTACACCCTCGGCGACGCGCCGCAGCTGGCCCG 672


RESULT  12
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
;  APPLICANT: FLEISCHMAN, Robert D.
;  APPLICANT:  WHITE, Owen R.
;  APPLICANT:  FRASER, Claire M.
;  APPLICANT:  VENTER, John C.
;  TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
;  TITLE OF INVENTION:  TUBERCULOSIS
;  FILE REFERENCE: 24366-20007.00
;  CURRENT APPLICATION NUMBER: US/09/103,840A
;  CURRENT FILING DATE:  1998-06-24
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 4403765
;   TYPE: DNA
;   ORGANISM: Mycobacterium tuberculosis
;   FEATURE:
;   OTHER INFORMATION: CDC 1551
;   OTHER INFORMATION: "n" bases at various positions throughout the sequence
;   OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2


  Query Match             2.4%;  Score 32;  DB 4;  Length 4403765;
  Best Local Similarity   48.7%;  Pred. No. 55;
  Matches   75;  Conservative    0;  Mismatches   79;  Indels    0;  Gaps    0;

Qy    326 cgttggcaaacttaagcggcgangaantnngnngcaatctgatccaatccggtttgtgga 385
          || |||    | |  |||||  |   |    |||   |  ||   || | ||| |
Db 2758854 cgctgggcggcattttcggcgtcgccttcctgggcaccattgtcgcggcctggttgggtg 2758913

Qy    386 ctgcgctgcgtanccgtccgttcagcaaaatccctgccgtcgatgccgagccgttcgcca 445
          | |||||||  | |     |  | | |||| || |    |   ||     || |||
Db 2758914 ccgcgctgccgaacaccatggccgacgaaattcccgatcccatcgctcgcgcgatcgttg 2758973

Qy    446 tcttcgtcaatgcgatggacaccaatccgctngc 479
          ||  |||||  | |     | | |||||||  ||
Db 2758974 tcgacgtcatcgtggacagcgcgaatccgcatgc 2759007


RESULT  13
US-08-524-828-3/c
; Sequence 3, Application US/08524828
; Patent No. 5874271
;  GENERAL INFORMATION:
;    APPLICANT:  Atsushi NISHIKAWA et al.
;    TITLE OF INVENTION:  HUMAN GLYCOSYLTRANSFERASE GENE,
;    TITLE OF INVENTION:  COMPOUNDS AND METHOD FOR INHIBITING CANCEROUS METASTASIS
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Wenderoth, Lind & Ponack
;      STREET:  805 Fifteenth Street, N.W., #700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 5.25 inch, 500 kb
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  Wordperfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/524,828
;      FILING DATE:  September 7, 1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/107,173
;      FILING DATE:  August 17, 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  James H. Meadows
;      REGISTRATION NUMBER:  33,965
;      REFERENCE/DOCKET NUMBER:  JTF/001
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-371-8850
;      TELEFAX:
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1608 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA to genomic RNA
US-08-524-828-3
```

```
  Query Match             2.4%;  Score 31.6;  DB 2;  Length 1608;
  Best Local Similarity   48.4%;  Pred. No. 5.7;
  Matches   88;  Conservative    0;  Mismatches   94;  Indels    0;  Gaps    0;

Qy     995 gcaaagagctgttcggctgggttgcgccgcagccggacaaatactccatcacgcgtacga 1054
           || ||| ||| |          | |    ||    |||  |  || ||||||||||| | |
Db    1028 GCGAAGGGCTCTGTCCAGCCATCGTAGAGCTTGAGGAACAGCACACCATCACGCGCAGGG 969

Qy    1055 ccctcggccatttcctgaaaaacaaactcttcaagttcacgacagccgtcaacggtggcg 1114
             |||| ||   || |  |  | |||  | |||      ||   |  |   | | || | |
Db     968 ATCTCGTCCGCGTCGTCGATGATAAAGACGTCATCAGGTCGCAGGTTGCGCAGGCGGGAG 909

Qy    1115 accgcgccatggtgccgattggtacttacgagcgcgtaatgccgctagacatcctgccta 1174
           ||  |  | |||    |   |||||  | |    |||       | || | ||||| |
Db     908 ACACCATCCTGGGTGAGGAAGGTACGCAGGTAGTCGTCTGCAATCCAGCCGTCCTGACGG 849

Qy    1175 cc 1176
           ||
Db     848 CC 847
```

RESULT 14
US-08-975-114A-3/c
; Sequence 3, Application US/08975114A
; Patent No. 5876714
; GENERAL INFORMATION:
; APPLICANT: Atsushi NISHIKAWA et al.
; TITLE OF INVENTION: HUMAN GLYCOSYLTRANSFERASE GENE,
; TITLE OF INVENTION: COMPOUNDS AND METHOD FOR INHIBITING CANCEROUS METASTASIS
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
; STREET: 2033 K Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/975,114A
; FILING DATE: No. 5876714ember 20, 1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/107,173
; FILING DATE: August 17, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee Cheng
; REGISTRATION NUMBER: 40,949
; REFERENCE/DOCKET NUMBER: 1-F3439DIV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-721-8200
; TELEFAX: 202-721-8250
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1608 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
US-08-975-114A-3

```
  Query Match             2.4%;  Score 31.6;  DB 2;  Length 1608;
  Best Local Similarity   48.4%;  Pred. No. 5.7;
  Matches   88;  Conservative    0;  Mismatches   94;  Indels    0;  Gaps    0;

Qy     995 gcaaagagctgttcggctgggttgcgccgcagccggacaaatactccatcacgcgtacga 1054
           || ||| ||| |          | |    ||    |||  |  || ||||||||||| | |
Db    1028 GCGAAGGGCTCTGTCCAGCCATCGTAGAGCTTGAGGAACAGCACACCATCACGCGCAGGG 969

Qy    1055 ccctcggccatttcctgaaaaacaaactcttcaagttcacgacagccgtcaacggtggcg 1114
             |||| ||   || |  |  | |||  | |||      ||   |  |   | | || | |
Db     968 ATCTCGTCCGCGTCGTCGATGATAAAGACGTCATCAGGTCGCAGGTTGCGCAGGCGGGAG 909

Qy    1115 accgcgccatggtgccgattggtacttacgagcgcgtaatgccgctagacatcctgccta 1174
           ||  |  | |||    |   |||||  | |    |||       | || | ||||| |
Db     908 ACACCATCCTGGGTGAGGAAGGTACGCAGGTAGTCGTCTGCAATCCAGCCGTCCTGACGG 849

Qy    1175 cc 1176
           ||
Db     848 CC 847
```

RESULT 15
US-08-849-281A-1/c
; Sequence 1, Application US/08849281A
; Patent No. 6153433
; GENERAL INFORMATION:
; APPLICANT: Eiji MIYOSHI et al.
; TITLE OF INVENTION: INHIBITOR FOR VIRAL REPLICATION
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
; STREET: 2033 K Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/849,281A
; FILING DATE: May 30, 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee Cheng
; REGISTRATION NUMBER: 40,949
; REFERENCE/DOCKET NUMBER: 97-0529*/LC(MJ)/1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-721-8200
; TELEFAX: 202-721-8250
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1608 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
US-08-849-281A-1

```
  Query Match             2.4%;  Score 31.6;  DB 3;  Length 1608;
  Best Local Similarity   48.4%;  Pred. No. 5.7;
  Matches   88;  Conservative    0;  Mismatches   94;  Indels    0;  Gaps    0;

Qy     995 gcaaagagctgttcggctgggttgcgccgcagccggacaaatactccatcacgcgtacga 1054
           || ||| ||| |          | |    ||    |||  |  || ||||||||||| | |
Db    1028 GCGAAGGGCTCTGTCCAGCCATCGTAGAGCTTGAGGAACAGCACACCATCACGCGCAGGG 969

Qy    1055 ccctcggccatttcctgaaaaacaaactcttcaagttcacgacagccgtcaacggtggcg 1114
             |||| ||   || |  |  | |||  | |||      ||   |  |   | | || | |
Db     968 ATCTCGTCCGCGTCGTCGATGATAAAGACGTCATCAGGTCGCAGGTTGCGCAGGCGGGAG 909
```

```
Qy   1115 accgcgccatggtgccgattggtacttacgagcgcgtaatgccgctagacatcctgccta 1174
          ||  |  | |||    |   |||||  | |    |||       | || | |||||
Db    908 ACACCATCCTGGGTGAGGAAGGTACGCAGGTAGTCGTCTGCAATCCAGCCGTCCTGACGG 849

Qy   1175 cc 1176
          ||
Db    848 CC 847


RESULT 16
US-08-399-646-1
; Sequence 1, Application US/08399646
; Patent No. 5556781
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/399,646
;      FILING DATE:  07-MAR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1767 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1767
US-08-399-646-1


  Query Match             2.4%;  Score 31.6;  DB 1;  Length 1767;
  Best Local Similarity   43.5%;  Pred. No. 6;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy    178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
          |||   ||  ||||| |  || |||   ||  |   ||    ||| |       |||  |
Db    889 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 948

Qy    238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
          ||  |  ||||  |   |   |       | ||| |  | |   |  | | |  ||
Db    949 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1008

Qy    298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
            | |   |||   | || ||| || |||   | || ||  |     | || |   |
Db   1009 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1068

Qy    358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
            | |    | | | ||| | ||  |           |    ||| ||| ||| |   | |
Db   1069 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1128

Qy    418 cctgccgtcgatgccgagccgttcgccatct 448
            | |        |||| || | | | |  ||
Db   1129 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1159


RESULT 17
US-08-607-321-1
; Sequence 1, Application US/08607321
; Patent No. 5716813
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/607,321
;      FILING DATE:  26-FEB-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1767 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1767
US-08-607-321-1
```

```
  Query Match             2.4%;  Score 31.6;  DB 1;  Length 1767;
  Best Local Similarity   43.5%;  Pred. No. 6;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy     178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
           |||   ||  ||||| |  || |||   ||  |   ||    ||| |       |||  |
Db     889 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 948

Qy     238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
           ||  |  ||||  |   |   |       |  ||| |  | |   |  |  |.|  ||
Db     949 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1008

Qy     298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
             | |   |||   | || ||| || |||  | || ||  |     | || |  |
Db    1009 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1068

Qy     358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
            | |    | | | ||| | ||  |          |    ||| ||| ||| |   | |
Db    1069 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1128

Qy     418 cctgccgtcgatgccgagccgttcgccatct 448
            | |        |||| || | | | |  ||
Db    1129 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1159


RESULT  18
US-08-961-240-1
; Sequence 1, Application US/08961240
; Patent No. 5830715
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/961,240
;      FILING DATE:  30-OCT-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1767 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1767
US-08-961-240-1


  Query Match             2.4%;  Score 31.6;  DB 2;  Length 1767;
  Best Local Similarity   43.5%;  Pred. No. 6;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy     178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
           |||   ||  ||||| |  || |||   ||  |   ||    ||| |       |||  |
Db     889 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 948

Qy     238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
           ||  |  ||||  |   |   |       |  ||| |  | |   |  |  |.|  ||
Db     949 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1008

Qy     298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
             | |   |||   | || ||| || |||  | || ||  |     | || |  |
Db    1009 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1068

Qy     358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
            | |    | | | ||| | ||  |          |    ||| ||| ||| |   | |
Db    1069 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1128

Qy     418 cctgccgtcgatgccgagccgttcgccatct 448
            | |        |||| || | | | |  ||
Db    1129 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1159


RESULT  19
US-08-605-501-1
; Sequence 1, Application US/08605501
; Patent No. 5834287
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/605,501
;      FILING DATE:  26-FEB-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
```

```
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1767 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1767
US-08-605-501-1


  Query Match             2.4%;  Score 31.6;  DB 2;  Length 1767;
  Best Local Similarity   43.5%;  Pred. No. 6;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy    178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
          |||   ||  ||||| |  || |||   ||  |   ||    ||| |       ||| |
Db    889 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 948

Qy    238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
          ||  |  ||||  |   |   |       | ||| |  | |   |  | | | |  ||
Db    949 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1008

Qy    298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
            | |   |||   | || ||| || |||  | || ||  |     | || |   |
Db   1009 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1068

Qy    358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
          | |    | | | ||| | ||  |          |    ||| ||| ||| |   | |
Db   1069 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1128

Qy    418 cctgccgtcgatgccgagccgttcgccatct 448
          | |        |||| || | | | |  ||
Db   1129 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1159


RESULT  20
US-08-399-646-11
; Sequence 11, Application US/08399646
; Patent No. 5556781
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/399,646
;      FILING DATE:  07-MAR-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2161 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  207..1994
US-08-399-646-11


  Query Match             2.4%;  Score 31.6;  DB 1;  Length 2161;
  Best Local Similarity   43.5%;  Pred. No. 6.7;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy    178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
          |||   ||  ||||| |  || |||   ||  |   ||    ||| |       ||| |
Db   1116 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 1175

Qy    238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
          ||  |  ||||  |   |   |       | ||| |  | |   |  | | | |  ||
Db   1176 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1235

Qy    298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
            | |   |||   | || ||| || |||  | || ||  |     | || |   |
Db   1236 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1295

Qy    358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
          | |    | | | ||| | ||  |          |    ||| ||| ||| |   | |
Db   1296 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1355

Qy    418 cctgccgtcgatgccgagccgttcgccatct 448
          | |        |||| || | | | |  ||
Db   1356 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1386


RESULT  21
US-08-607-321-11
; Sequence 11, Application US/08607321
; Patent No. 5716813
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
```

```
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/607,321
;      FILING DATE:  26-FEB-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2161 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  207..1994
US-08-607-321-11


  Query Match             2.4%;  Score 31.6;  DB 1;  Length 2161;
  Best Local Similarity   43.5%;  Pred. No. 6.7;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy    178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
          |||   ||  ||||| |  || |||   ||  |   ||    ||| |       |||  |
Db   1116 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 1175

Qy    238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
          ||  |  ||||  |   |   |       |  ||| |  | |   |  |  | |  ||
Db   1176 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1235

Qy    298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
            | |   |||   | || ||| || |||  | || ||  |     | || | |
Db   1236 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1295

Qy    358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
            | |    | | | ||| | ||  |           |    ||| ||| ||| |   | |
Db   1296 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1355

Qy    418 cctgccgtcgatgccgagccgttcgccatct 448
            | |       |||| || | | | |  ||
Db   1356 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1386


RESULT  22
US-08-961-240-11
; Sequence 11, Application US/08961240
; Patent No. 5830715
;  GENERAL INFORMATION:
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/961,240
;      FILING DATE:  30-OCT-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2161 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  207..1994
US-08-961-240-11


  Query Match             2.4%;  Score 31.6;  DB 2;  Length 2161;
  Best Local Similarity   43.5%;  Pred. No. 6.7;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy    178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
          |||   ||  ||||| |  || |||   ||  |   ||    ||| |       |||  |
Db   1116 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 1175

Qy    238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
          ||  |  ||||  |   |   |       |  ||| |  | |   |  |  | |  ||
Db   1176 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1235

Qy    298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
            | |   |||   | || ||| || |||  | || ||  |     | || | |
Db   1236 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1295

Qy    358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
            | |    | | | ||| | ||  |           |    ||| ||| ||| |   | |
Db   1296 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1355

Qy    418 cctgccgtcgatgccgagccgttcgccatct 448
            | |       |||| || | | | |  ||
Db   1356 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1386


RESULT  23
US-08-605-501-11
; Sequence 11, Application US/08605501
; Patent No. 5834287
;  GENERAL INFORMATION:
```

```
;    APPLICANT:  KUBOTA, Michio
;    APPLICANT:  TSUSAKI, Keiji
;    APPLICANT:  HATTORI, Kazuko
;    APPLICANT:  SUGIMOTO, Toshiyuki
;    TITLE OF INVENTION:  DNA ENCODING ENZYME, RECOMBINANT DNA AND
;    TITLE OF INVENTION:  ENZYME, TRANSFORMANT, AND THEIR PREPARATIONS AND USE
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/605,501
;      FILING DATE:  26-FEB-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/399,646
;      FILING DATE:  07-MAR-1995
;      APPLICATION NUMBER:  JP 59834
;      FILING DATE:  07-MAR-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 59840
;      FILING DATE:  07-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BROWDY, Roger L.
;      REGISTRATION NUMBER:  25,618
;      REFERENCE/DOCKET NUMBER:  KUBOTA=5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2161 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  207..1994
US-08-605-501-11


  Query Match             2.4%;  Score 31.6;  DB 2;  Length 2161;
  Best Local Similarity   43.5%;  Pred. No. 6.7;
  Matches  118;  Conservative    0;  Mismatches  153;  Indels    0;  Gaps    0;

Qy     178 gacaaaaagnatccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatc 237
           |||   ||  |||||  |  || |||   ||  |   ||    ||| |       ||| |
Db    1116 GACCTCAACAATCCGCGGCTGCTGTACCCCCGGGATGTCAACGGCTACGGACTGGCCGGC 1175

Qy     238 catcgcggcgaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaa 297
           ||  |  ||||  |   |   |       | ||| |  | |   |  | | | ||
Db    1176 CAGTGGAGCGACGACTTCCACCACGCCGTGCACGTCAACGTCAGCGGGGAAACCACCGGC 1235

Qy     298 atcgagttcgaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngn 357
             | |   |||   | || ||| || |||  | || ||  |     | || |   |
Db    1236 TACTACAGCGACTTCGACTCGCTCGGAGCCCTCGCCAAGGTCCTGCGTGACGGGTTCTTC 1295

Qy     358 ngcaatctgatccaatccggtttgtggactgcgctgcgtanccgtccgttcagcaaaatc 417
             | |    | | | ||| | ||  |          |    ||| ||| ||| |   | |
Db    1296 CACGACGGCAGCTACTCCAGCTTCCGCGGCCGCTGCCACGGCCGGCCGATCAACTTCAGC 1355

Qy     418 cctgccgtcgatgccgagccgttcgccatct 448
```

```
           | |        |||| || | | | |  ||
Db    1356 GCCGTGCATCCGGCCGCGCTGGTGGTCTGCT 1386


RESULT  24
US-08-471-119A-1
; Sequence 1, Application US/08471119A
; Patent No. 5827706
;  GENERAL INFORMATION:
;    APPLICANT:  Leitner, Ernst
;    APPLICANT:  Schneider, Elisabeth
;    APPLICANT:  Schoergendorfer, Kurt
;    APPLICANT:  Weber, Gerhard
;    TITLE OF INVENTION:  Cyclosporin Synthetase
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 5827706artis Corporation
;      STREET:  59 Route 10
;      CITY:  East Hanover
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07936
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/471,119A
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kassenoff, Melvyn
;      REGISTRATION NUMBER:  26,389
;      REFERENCE/DOCKET NUMBER:  100-8029/CONT/CONT
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201 503 8474
;      TELEFAX:  201 503 8807
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  46899 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
;      ORGANISM:  Tolypocladium niveum
;      STRAIN:  ATCC 34921
US-08-471-119A-1


  Query Match             2.4%;  Score 31.6;  DB 1;  Length 46899;
  Best Local Similarity   55.5%;  Pred. No. 34;
  Matches   61;  Conservative    0;  Mismatches   49;  Indels    0;  Gaps    0;

Qy    1165 atcctgcctaccctgcttttgcgcgatttaatcgtcggcgataccgacagcgcgcaagca 1224
           |||  |||  ||  | |   || || |||| ||  | ||||    |   |||    ||||
Db    3576 ATCGAGCCAGCCGAGGTAGAGCACGCTTTACTCAACAGCGACCAAGTACGCGATGCAGCA 3635

Qy    1225 ttgggttgcttggaattggacgaagaagacctcgctttgtgcagcttcgt 1274
           ||| |  |  |  |  ||| || ||||| |  ||  ||     ||||||
Db    3636 GTGGTTATCCGGAGACAGGAGGAGGAAGAGCCTGCGATGATTGCCTTCGT 3685


RESULT  25
US-09-036-987A-1/c
; Sequence 1, Application US/09036987A
; Patent No. 6143526
;  GENERAL INFORMATION:
;    APPLICANT:  Baltz, Richard H.
;    APPLICANT:  Broughton, Mary C.
```

```
;    APPLICANT:  Crawford, Kathryn P.
;    APPLICANT:  Madduri, Krishnamurthy
;    APPLICANT:  Merlo, Donald J.
;    APPLICANT:  Treadway, Patti J.
;    APPLICANT:  Turner, Jan R.
;    APPLICANT:  Waldron, Clive
;    TITLE OF INVENTION:  Biosynthetic Genes For Spinosyn Insecticide
;    TITLE OF INVENTION:  Production
;    NUMBER OF SEQUENCES:  39
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dow AgroSciences LLC Patent Department
;      STREET:  9330 Zionsville Road
;      CITY:  Indianapolis
;      STATE:  Indiana
;      COUNTRY:  USA
;      ZIP:  46268
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/036,987A
;      FILING DATE:  09-MAR-1998
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Stuart, Donald R
;      REGISTRATION NUMBER:  28,479
;      REFERENCE/DOCKET NUMBER:  50,608
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (317)337-4816
;      TELEFAX:  (317)337-4847
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  80161 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
US-09-036-987A-1


  Query Match             2.4%;  Score 31.6;  DB 3;  Length 80161;
  Best Local Similarity   55.2%;  Pred. No. 45;
  Matches   58;  Conservative    0;  Mismatches   47;  Indels    0;  Gaps    0;

Qy    415 atccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccg 474
          | | | ||| ||||   ||  |||||||| |  |   |||  || |  || |  |   | |
Db  20368 AACGCCGCCATCGAGCACGGTCCGTTCGGCGACAAGGTCGGTGAGCCGGTCGGCGGCCTG 20309

Qy    475 ctngcggcagaccctgtggttgtgatcaaagaagccgncgangat 519
          ||  | | |  |||    || ||  ||  || |||||  |  |||
Db  20308 CTGCCAGGAAGCCCGCCCGTCGTTCTCCCAGTAGCCGTGGTGGAT 20264


RESULT  26
US-09-370-700-1/c
; Sequence 1, Application US/09370700
; Patent No. 6274350
; GENERAL INFORMATION:
;  APPLICANT: Baltz, Richard H
;  APPLICANT: Broughton, Mary C
;  APPLICANT: Crawford, Kathryn P
;  APPLICANT: Madduri, Krishnamurthy
;  APPLICANT: Treadway, Patti J
;  APPLICANT: Turner, Jan R
;  APPLICANT: Waldron, Clive
;  TITLE OF INVENTION: Biosynthetic Genes For Spinosyn Insecticide
;  FILE REFERENCE: 50489 DIV1
;  CURRENT APPLICATION NUMBER: US/09/370,700
;  CURRENT FILING DATE: 1999-08-09
;  EARLIER APPLICATION NUMBER: US 09/36987
;  EARLIER FILING DATE: 1998-03-09
;  NUMBER OF SEQ ID NOS: 39
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 80161
;   TYPE: DNA
;   ORGANISM: Saccharopolyspora spinosa
US-09-370-700-1


  Query Match             2.4%;  Score 31.6;  DB 4;  Length 80161;
  Best Local Similarity   55.2%;  Pred. No. 45;
  Matches   58;  Conservative    0;  Mismatches   47;  Indels    0;  Gaps    0;

Qy    415 atccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccg 474
          | | | ||| ||||   ||  |||||||| |  |   |||  || |  || |  |   | |
Db  20368 AACGCCGCCATCGAGCACGGTCCGTTCGGCGACAAGGTCGGTGAGCCGGTCGGCGGCCTG 20309

Qy    475 ctngcggcagaccctgtggttgtgatcaaagaagccgncgangat 519
          ||  | | |  |||    || ||  ||  || |||||  |  |||
Db  20308 CTGCCAGGAAGCCCGCCCGTCGTTCTCCCAGTAGCCGTGGTGGAT 20264


RESULT  27
US-07-602-608-1
; Sequence 1, Application US/07602608
; Patent No. 5382524
;  GENERAL INFORMATION:
;    APPLICANT:  Desnick, Robert J.
;    APPLICANT:  Bishop, David F.
;    APPLICANT:  Ioannou, Yiannis A.
;    APPLICANT:  Wang, Anne M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF BIOLOGICALLY
;    TITLE OF INVENTION:  ACTIVE ALPHA-N-ACETYLGALACTOSAMINIDASE
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PENNIE & EDMONDS
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/602,608
;      FILING DATE:  24-OCT-1990
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  6923-008
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2158 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  345..1580
US-07-602-608-1


  Query Match             2.3%;  Score 31.4;  DB 1;  Length 2158;
  Best Local Similarity   61.0%;  Pred. No. 7.7;
```

```
  Matches   50;  Conservative    0;  Mismatches   32;  Indels    0;  Gaps    0;

Qy    415 atccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccg 474
          | |||  | | || ||| ||||   |||||| | || | |   | |||  || ||   |
Db   1821 AGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCATGCCCATCAGGACT 1880

Qy    475 ctngcggcagaccctgtggttg 496
          || ||  | |||| ||  ||||
Db   1881 CTAGCCTCTGACCTTGCTGTTG 1902


RESULT  28
US-08-261-578-1
; Sequence 1, Application US/08261578
; Patent No. 5491075
;  GENERAL INFORMATION:
;    APPLICANT:  Desnick, Robert J.
;    APPLICANT:  Bishop, David F.
;    APPLICANT:  Ioannou, Yiannis A.
;    APPLICANT:  Wang, Anne M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF BIOLOGICALLY
;    TITLE OF INVENTION:  ACTIVE ALPHA-N-ACETYLGALACTOSAMINIDASE
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  PENNIE & EDMONDS
;      STREET:  1155 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/261,578
;      FILING DATE:  17-JUN-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/602,608
;      FILING DATE:  24-OCT-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Coruzzi, Laura A.
;      REGISTRATION NUMBER:  30,742
;      REFERENCE/DOCKET NUMBER:  6923-008
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 790-9090
;      TELEFAX:  (212) 869-8864/9741
;      TELEX:  66141 PENNIE
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  2158 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  unknown
;    MOLECULE TYPE:  cDNA
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  345..1580
US-08-261-578-1


  Query Match             2.3%;  Score 31.4;  DB 1;  Length 2158;
  Best Local Similarity   61.0%;  Pred. No. 7.7;
  Matches   50;  Conservative    0;  Mismatches   32;  Indels    0;  Gaps    0;

Qy    415 atccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatggacaccaatccg 474
          | |||  | | || ||| ||||   |||||| | || | |   | |||  || ||   |
Db   1821 AGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCATGCCCATCAGGACT 1880

Qy    475 ctngcggcagaccctgtggttg 496
          || ||  | |||| ||  ||||
Db   1881 CTAGCCTCTGACCTTGCTGTTG 1902


RESULT  29
US-08-776-059-38/c
; Sequence 38, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
;  APPLICANT: LENTZEN, Hans
;  APPLICANT: ECK, Jurgen
;  APPLICANT: BAUR, Axel
;  APPLICANT: ZINKE, Holger
;  TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
;  FILE REFERENCE: 674503-2003
;  CURRENT APPLICATION NUMBER: US/08/776,059B
;  CURRENT FILING DATE: 1999-06-19
;  EARLIER APPLICATION NUMBER: PCT/EP96/02273
;  EARLIER FILING DATE: 1996-06-25
;  EARLIER APPLICATION NUMBER: 95109949.8
;  EARLIER FILING DATE: 1995-06-26
;  NUMBER OF SEQ ID NOS: 56
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 38
;   LENGTH: 705
;   TYPE: DNA
;   ORGANISM: Viscum album
US-08-776-059-38


  Query Match             2.3%;  Score 31.2;  DB 4;  Length 705;
  Best Local Similarity   48.8%;  Pred. No. 4.9;
  Matches   84;  Conservative    0;  Mismatches   88;  Indels    0;  Gaps    0;

Qy    865 gcgggcgaattggttgacgcagacaaccgcgtgatttccggttcggtattgaacggcgcg 924
          | | | | || || ||  || |   |     ||  || | |  | |  | |  || ||||
Db    276 GAGAGAGGATCGGGTGGTGCCGGTGAAGAGATGCGTTTCCGCGCCGCGTGGTGCGTCGCG 217

Qy    925 attacacaaggcgcgcacgattatttgggacgctaccacaatcagatttccgttatcgaa 984
            | |  |||  |  ||  |  |||| | || || ||   ||||||       ||||
Db    216 CAAAAAGTAGGATTGGTCGCCTGCTTGGTAAGCCACGACGTACAGATTGGTAACGTCGAT 157

Qy    985 gaaggccgcagcaaagagctgttcggctgggttgcgccgcagccggacaaat 1036
          |  |||||      ||       |      | || ||  || |  |||||||
Db    156 GGCGGCCGTGATCGAGTCTCCCCCCTGGTTGGTGAGCTCCACCAAGACAAAT 105


RESULT  30
US-08-776-059-30/c
; Sequence 30, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
;  APPLICANT: LENTZEN, Hans
;  APPLICANT: ECK, Jurgen
;  APPLICANT: BAUR, Axel
;  APPLICANT: ZINKE, Holger
;  TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
;  FILE REFERENCE: 674503-2003
;  CURRENT APPLICATION NUMBER: US/08/776,059B
;  CURRENT FILING DATE: 1999-06-19
;  EARLIER APPLICATION NUMBER: PCT/EP96/02273
;  EARLIER FILING DATE: 1996-06-25
;  EARLIER APPLICATION NUMBER: 95109949.8
;  EARLIER FILING DATE: 1995-06-26
;  NUMBER OF SEQ ID NOS: 56
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
;   LENGTH: 774
;   TYPE: DNA
;   ORGANISM: Viscum album
US-08-776-059-30


  Query Match             2.3%;  Score 31.2;  DB 4;  Length 774;
```

```
  Best Local Similarity   48.8%;  Pred. No. 5.2;
  Matches   84;  Conservative    0;  Mismatches   88;  Indels    0;  Gaps    0;

Qy    865 gcgggcgaattggttgacgcagacaaccgcgtgatttccggttcggtattgaacggcgcg 924
          | | | | || || ||  || |     |     ||  || | |  | | | |  || ||||
Db    333 GAGAGAGGATCGGGTGGTGCCGGTGAAGAGATGCGTTTCCGCGCCGCGTGGTGCGTCGCG 274

Qy    925 attacacaaggcgcgcacgattatttgggacgctaccacaatcagatttccgttatcgaa 984
            | |  |||   |  ||  |  |||| | || || ||   ||||||      ||||
Db    273 CAAAAAGTAGGATTGGTCGCCTGCTTGGTAAGCCACGACGTACAGATTGGTAACGTCGAT 214

Qy    985 gaaggccgcagcaaagagctgttcggctgggttgcgccgcagccggacaaat 1036
          |  |||||      ||       |      | || ||  || |  |||||||
Db    213 GGCGGCCGTGATCGAGTCTCCCCCCTGGTTGGTGAGCTCCACCAAGACAAAT 162


RESULT  31
US-08-776-059-34/c
; Sequence 34, Application US/08776059B
; Patent No. 6271368
; GENERAL INFORMATION:
;  APPLICANT: LENTZEN, Hans
;  APPLICANT: ECK, Jurgen
;  APPLICANT: BAUR, Axel
;  APPLICANT: ZINKE, Holger
;  TITLE OF INVENTION: RECOMBINANT MISTLETOE LECTIN (RML)
;  FILE REFERENCE: 674503-2003
;  CURRENT APPLICATION NUMBER: US/08/776,059B
;  CURRENT FILING DATE: 1999-06-19
;  EARLIER APPLICATION NUMBER: PCT/EP96/02273
;  EARLIER FILING DATE: 1996-06-25
;  EARLIER APPLICATION NUMBER: 95109949.8
;  EARLIER FILING DATE: 1995-06-26
;  NUMBER OF SEQ ID NOS: 56
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34
;   LENGTH: 1923
;   TYPE: DNA
;   ORGANISM: Viscum album
US-08-776-059-34


  Query Match             2.3%;  Score 31.2;  DB 4;  Length 1923;
  Best Local Similarity   48.8%;  Pred. No. 8.4;
  Matches   84;  Conservative    0;  Mismatches   88;  Indels    0;  Gaps    0;

Qy    865 gcgggcgaattggttgacgcagacaaccgcgtgatttccggttcggtattgaacggcgcg 924
          | | | | || || ||  || |     |     ||  || | |  | | | |  || ||||
Db    480 GAGAGAGGATCGGGTGGTGCCGGTGAAGAGATGCGTTTCCGCGCCGCGTGGTGCGTCGCG 421

Qy    925 attacacaaggcgcgcacgattatttgggacgctaccacaatcagatttccgttatcgaa 984
            | |  |||   |  ||  |  |||| | || || ||   ||||||      ||||
Db    420 CAAAAAGTAGGATTGGTCGCCTGCTTGGTAAGCCACGACGTACAGATTGGTAACGTCGAT 361

Qy    985 gaaggccgcagcaaagagctgttcggctgggttgcgccgcagccggacaaat 1036
          |  |||||      ||       |      | || ||  || |  |||||||
Db    360 GGCGGCCGTGATCGAGTCTCCCCCCTGGTTGGTGAGCTCCACCAAGACAAAT 309


RESULT  32
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
;  GENERAL INFORMATION:
;    APPLICANT:  DORNER, F.
;    APPLICANT:  SCHEIFLINGER, F.
;    APPLICANT:  FALKNER, F. G.
;    TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
;    NUMBER OF SEQUENCES:  52
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  1800 Diagonal Road, Suite 500
;      CITY:  Alexandria
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  22313-0299
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/232,463
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/935,313
;      FILING DATE:
;      APPLICATION NUMBER:  EP 91 114 300.6
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENT, Stephen A.
;      REGISTRATION NUMBER:  29,768
;      REFERENCE/DOCKET NUMBER:  30472/114 IMMU
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)836-9300
;      TELEFAX:  (703)683-4109
;      TELEX:  899149
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  7218 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      CLONE:  pTZgpt-F1s
US-08-232-463-14


  Query Match             2.3%;  Score 31.2;  DB 1;  Length 7218;
  Best Local Similarity   1.7%;  Pred. No. 17;
  Matches    6;  Conservative  193;  Mismatches  160;  Indels    0;  Gaps    0;

Qy      7 aaaatcaaaaaaggtctaaacctgcccatcgcgggcagaccggagcaagtcatttatgac 66
          ::::  :::::::::   :::   :   :  : ::: :::  :::: :::  :   : ::
Db   1415 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1356

Qy     67 gggcccgtcattaccgaagtcgcgttgcttggcgaagaatatgccggtatgcgcccctng 126
          :::   :  :  :  ::::  : :  :   :: :::::: : :  :: : : :      :
Db   1355 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1296

Qy    127 atgaaagtcaaggaaggcgatgccgtcaaaaaaggccaagtgctgtttgaagacaaaaag 186
          : :::::  :::::::: :: :  :  ::::::::  ::: :  :   ::::: ::::::
Db   1295 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1236

Qy    187 natccgggcgtggtgtttaccgcgccngtttcaggcaaaatcgccgccatccatcgcggc 246
           :   ::: : :: :   :  : :  :   :    ::: ::::  :  :  :   :  : ::
Db   1235 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1176

Qy    247 gaaaagcgcgtacttcagtcggtcgtgattgccgttgaaggcaacgacgaaatcgagttc 306
          :::::: : : :    ::  ::  : ::  :  :  ::::: :: :: ::::  :::
Db   1175 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1116

Qy    307 gaacgctacgcgcccgaagcgttggcaaacttaagcggcgangaantnngnngcaatct 365
          ::: :  : : :   :::: :  :: :::   ::: :: :: :::       |||| ||
Db   1115 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRATCGCAAGCT 1057


RESULT  33
US-08-090-523-1
; Sequence 1, Application US/08090523
; Patent No. 5498830
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
```

```
;    TITLE OF INVENTION:  Enhanced Starch Biosynthesis
;    NUMBER OF SEQUENCES:  51
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Co. BB4F
;      STREET:  700 Chesterfield Parkway No. 5498830th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/090,523
;      FILING DATE:  19930712
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/709663
;      FILING DATE:  07-JUN-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/539763
;      FILING DATE:  18-JUN-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bonner, Grace L.
;      REGISTRATION NUMBER:  32,963
;      REFERENCE/DOCKET NUMBER:  38-21(10559)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7286
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
US-08-090-523-1


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy     343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
           ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db     721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy     403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
           |  |   ||  |    | | |   |||||||||||||| |     |   ||   | || ||
Db     781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy     463 gacaccaatccgctngcggcagaccctgtgg 493
           ||  |  |   |  |||     |  | |||
Db     841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  34
US-08-090-523-3
; Sequence 3, Application US/08090523
; Patent No. 5498830
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
;    TITLE OF INVENTION:  Enhanced Starch Biosynthesis
;    NUMBER OF SEQUENCES:  51
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Co. BB4F
;      STREET:  700 Chesterfield Parkway No. 5498830th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/090,523
;      FILING DATE:  19930712
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/709663
;      FILING DATE:  07-JUN-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/539763
;      FILING DATE:  18-JUN-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bonner, Grace L.
;      REGISTRATION NUMBER:  32,963
;      REFERENCE/DOCKET NUMBER:  38-21(10559)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7286
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
US-08-090-523-3


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy     343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
           ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db     721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy     403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
           |  |   ||  |    | | |   |||||||||||||| |     |   ||   | || ||
Db     781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy     463 gacaccaatccgctngcggcagaccctgtgg 493
           ||  |  |   |  |||     |  | |||
Db     841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  35
US-08-398-627-1
; Sequence 1, Application US/08398627
; Patent No. 5608149
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
;    TITLE OF INVENTION:  Enhanced Starch Biosynthesis
;    NUMBER OF SEQUENCES:  51
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Co. BB4F
;      STREET:  700 Chesterfield Parkway No. 5608149th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
```

```
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/398,627
;      FILING DATE:  03-MAR-1995
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/090,523
;      FILING DATE:  12-JUL-1993
;      APPLICATION NUMBER:  US 07/709663
;      FILING DATE:  07-JUN-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/539763
;      FILING DATE:  18-JUN-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bonner, Grace L.
;      REGISTRATION NUMBER:  32,963
;      REFERENCE/DOCKET NUMBER:  38-21(10559)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7286
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
US-08-398-627-1


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |      |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  36
US-08-398-627-3
; Sequence 3, Application US/08398627
; Patent No. 5608149
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
;    TITLE OF INVENTION:  Enhanced Starch Biosynthesis
;    NUMBER OF SEQUENCES:  51
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Co. BB4F
;      STREET:  700 Chesterfield Parkway No. 5608149th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/398,627
;      FILING DATE:  03-MAR-1995
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/090,523
;      FILING DATE:  12-JUL-1993
;      APPLICATION NUMBER:  US 07/709663
;      FILING DATE:  07-JUN-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/539763
;      FILING DATE:  18-JUN-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bonner, Grace L.
;      REGISTRATION NUMBER:  32,963
;      REFERENCE/DOCKET NUMBER:  38-21(10559)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7286
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
US-08-398-627-3


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |      |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  37
US-08-406-858-1
; Sequence 1, Application US/08406858
; Patent No. 5648249
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
;    APPLICANT:  Zalewski, James C.
;    TITLE OF INVENTION:  Method of Improving the Quality of
;    TITLE OF INVENTION:  Stored Potatoes
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Company, BB4F
;      STREET:  700 Chesterfield Parkway No. 5648249th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
```

```
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/406,858
;       FILING DATE:
;       CLASSIFICATION:  800
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/US94/05275
;       FILING DATE:  18-MAY-1994
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/070,155
;       FILING DATE:  28-MAY-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Bonner, Grace L.
;       REGISTRATION NUMBER:  32,963
;       REFERENCE/DOCKET NUMBER:  38-21(10654)A
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (314)537-7286
;       TELEFAX:  (314)537-6047
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1296 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  1..1296
US-08-406-858-1


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy     343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
           ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db     721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy     403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
           |  |   ||  |    | | |  ||||||||||||| |      |   ||   | || ||
Db     781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy     463 gacaccaatccgctngcggcagaccctgtgg 493
           ||  |  |   |  |||     |  | |||
Db     841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  38
US-08-406-858-3
; Sequence 3, Application US/08406858
; Patent No. 5648249
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Stark, David M.
;    APPLICANT:  Zalewski, James C.
;    TITLE OF INVENTION:  Method of Improving the Quality of
;    TITLE OF INVENTION:  Stored Potatoes
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Grace L. Bonner, Monsanto Company, BB4F
;      STREET:  700 Chesterfield Parkway No. 5648249th
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/406,858
;      FILING DATE:
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05275
;      FILING DATE:  18-MAY-1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/070,155
;      FILING DATE:  28-MAY-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Bonner, Grace L.
;      REGISTRATION NUMBER:  32,963
;      REFERENCE/DOCKET NUMBER:  38-21(10654)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314)537-7286
;      TELEFAX:  (314)537-6047
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1296
US-08-406-858-3


  Query Match             2.3%;  Score 31;  DB 1;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy     343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
           ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db     721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy     403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
           |  |   ||  |    | | |  ||||||||||||| |      |   ||   | || ||
Db     781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy     463 gacaccaatccgctngcggcagaccctgtgg 493
           ||  |  |   |  |||     |  | |||
Db     841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  39
PCT-US91-04036-1
; Sequence 1, Application PC/TUS9104036
;  GENERAL INFORMATION:
;    APPLICANT:  Kishore, Ganesh M.
;    TITLE OF INVENTION:  Increased Starch Content in Plants
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Monsanto Co.
;      STREET:  700 Chesterfield Village Parkway
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/04036
;      FILING DATE:  19910607
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
```

```
;      NAME:  McBride, Thomas P.
;      REGISTRATION NUMBER:  32706
;      REFERENCE/DOCKET NUMBER:  38-21(10530)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7357
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
PCT-US91-04036-1


  Query Match             2.3%;  Score 31;  DB 5;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |  ||||||||||||| |      |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  40
PCT-US91-04036-3
; Sequence 3, Application PC/TUS9104036
;  GENERAL INFORMATION:
;    APPLICANT:  Kishore, Ganesh M.
;    TITLE OF INVENTION:  Increased Starch Content in Plants
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Monsanto Co.
;      STREET:  700 Chesterfield Village Parkway
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US91/04036
;      FILING DATE:  19910607
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McBride, Thomas P.
;      REGISTRATION NUMBER:  32706
;      REFERENCE/DOCKET NUMBER:  38-21(10530)A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (314) 537-7357
;      TELEFAX:  (314) 537-6047
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1293
PCT-US91-04036-3


  Query Match             2.3%;  Score 31;  DB 5;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |  ||||||||||||| |      |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT  41
PCT-US94-05275-1
; Sequence 1, Application PC/TUS9405275
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  Method of Improving the Quality of Stored
;    TITLE OF INVENTION:  Potatoes
;    NUMBER OF SEQUENCES:  26
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05275
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/070155
;      FILING DATE:  28-MAY-1993
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1296
PCT-US94-05275-1


  Query Match             2.3%;  Score 31;  DB 5;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |  ||||||||||||| |      |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871
```

```
RESULT 42
PCT-US94-05275-3
; Sequence 3, Application PC/TUS9405275
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  Method of Improving the Quality of Stored
;    TITLE OF INVENTION:  Potatoes
;    NUMBER OF SEQUENCES:  26
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/05275
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/070155
;      FILING DATE:  28-MAY-1993
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1296 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..1296
PCT-US94-05275-3


  Query Match             2.3%;  Score 31;  DB 5;  Length 1296;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    721 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 780

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |     |   ||   | || ||
Db    781 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 840

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    841 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 871


RESULT 43
US-07-735-065-3
; Sequence 3, Application US/07735065
; Patent No. 5349123
;  GENERAL INFORMATION:
;    APPLICANT:  Christine K. Shewmaker
;    APPLICANT:  David M. Stalker
;    TITLE OF INVENTION:  Glycogen Biosynthetic Enzymes
;    TITLE OF INVENTION:  In Plants
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Calgene, Inc.
;      STREET:  1920 Fifth Street
;      CITY:  Davis
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  95616
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 1.0 MB
;      COMPUTER:  Apple Macintosh
;      OPERATING SYSTEM:  Macintosh 6.0.7
;      SOFTWARE:  Microsoft Word 4.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/735,065
;      FILING DATE:  19910724
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/632,383
;      FILING DATE:  21-DEC-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  unassigned
;      FILING DATE:  16-JUL-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Elizabeth Lassen
;      REGISTRATION NUMBER:  31,845
;      NAME:  Donna E. Scherer
;      REGISTRATION NUMBER:  34,719
;      REFERENCE/DOCKET NUMBER:  CGNE 77-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (916) 753-6313
;      TELEFAX:  (916) 753-1510
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1323 base pairs
;      TYPE:  NUCLEIC ACID
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  genomic DNA
US-07-735-065-3


  Query Match             2.3%;  Score 31;  DB 1;  Length 1323;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |      |||  | | | || ||||| ||     |||||  |    ||
Db    736 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 795

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |     |   ||   | || ||
Db    796 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 855

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |  |||     |  | |||
Db    856 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 886


RESULT 44
US-08-469-202-13
; Sequence 13, Application US/08469202
; Patent No. 5750875
;  GENERAL INFORMATION:
;    APPLICANT:  STALKER, DAVID
;    TITLE OF INVENTION:  GLYCOGEN BIOSYNTHETIC ENZYMES IN PLANTS
;    NUMBER OF SEQUENCES:  28
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CALGENE, INC.
;      STREET:  1920 FIFTH STREET
;      CITY:  DAVIS
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  95616
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.50 inch, 2.0 MB
;      COMPUTER:  Apple Macintosh
;      OPERATING SYSTEM:  Macintosh 7.1
;      SOFTWARE:  Microsoft Word 5.1 (a)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/469,202
;      FILING DATE:  6-JUNE-95
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/016,881
;      FILING DATE:  11_FEB_1993
;      CLASSIFICATION:  800
```

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Elizabeth Lassen
;      REGISTRATION NUMBER:  31,845
;      NAME:  Donna E. Scherer
;      REGISTRATION NUMBER:  34,719
;      NAME:  Carl J. Schwedler
;      REGISTRATION NUMBER:  36,924
;      REFERENCE/DOCKET NUMBER:  CGNE 93-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  916-753-6313
;      TELEFAX:  916-753-1510
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1323 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
US-08-469-202-13


  Query Match             2.3%;  Score 31;  DB 1;  Length 1323;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |       |||  | | | || ||||| ||     |||||  |    ||
Db    736 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 795

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |     |   ||   | || ||
Db    796 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 855

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |   |||     |  | |||
Db    856 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 886


RESULT  45
US-08-484-434C-13
; Sequence 13, Application US/08484434C
; Patent No. 5969214
;  GENERAL INFORMATION:
;    APPLICANT:  STALKER, DAVID
;    TITLE OF INVENTION:  GLYCOGEN BIOSYNTHETIC ENZYMES IN PLANTS
;    NUMBER OF SEQUENCES:  35
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Calgene LLC
;      STREET:  1920 Fifth Street
;      CITY:  Davis
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  95616
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC
;      OPERATING SYSTEM:  Windows NT 4.0; MS Word for Windows 7.0a
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/484,434C
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/016,881
;      FILING DATE:  11-FEB-1993
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Schwedler, Carl J.
;      REGISTRATION NUMBER:  36,924
;      REFERENCE/DOCKET NUMBER:  15593/01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  530-792-2265
;      TELEFAX:  530-792-2463
;  INFORMATION FOR SEQ ID NO:  13:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1323 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  16..1308
US-08-484-434C-13


  Query Match             2.3%;  Score 31;  DB 2;  Length 1323;
  Best Local Similarity   48.3%;  Pred. No. 7.9;
  Matches   73;  Conservative    0;  Mismatches   78;  Indels    0;  Gaps    0;

Qy    343 ggcgangaantnngnngcaatctgatccaatccggtttgtggactgcgctgcgtanccgt 402
          ||| | ||  |       |||  | | | || ||||| ||     |||||  |    ||
Db    736 GGCAAAGATTTGATTCCCAAGATCACCGAAGCCGGTCTGGCCTATGCGCACCCGTTCCCG 795

Qy    403 ccgttcagcaaaatccctgccgtcgatgccgagccgttcgccatcttcgtcaatgcgatg 462
          |  |   ||  |    | | |   ||||||||||||| |     |   ||   | || ||
Db    796 CTCTCTTGCGTACAATCCGACCCGGATGCCGAGCCGTACTGGCGCGATGTGGGTACGCTG 855

Qy    463 gacaccaatccgctngcggcagaccctgtgg 493
          ||  |  |   |   |||     |  | |||
Db    856 GAAGCTTACTGGAAAGCGAACCTCGATCTGG 886


Search completed: June 30, 2002, 12:48:41
Job time: 57046 sec
```